

INSTALLATION MANUAL

Versatile (Nemesis) - JD Bridge



Version 1.2
June 2026

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Release Notice

This is the June 2026 release of the Versatile (Nemesis)-JD Bridge Installation Manual.

Disclaimer

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**DO NOT USE THE Versatile(Nemesis)-JD Bridge IF YOU DISAGREE WITH THE
DISCLAIMER.**

Important Safety Information

Read this manual and the operation and safety instructions carefully before installing the Versatile(Nemesis)-JD Bridge.

- Follow all safety information presented within this manual.
- If you require assistance with any portion of the installation or service of your equipment, contact your Agra-GPS for support.
- Follow all safety labels affixed to the system components. Be sure to keep safety labels in good condition and replace any missing or damaged labels. To obtain replacements for missing or damaged safety labels, contact Agra-GPS.

When operating the machine after installing the Versatile(Nemesis)-JD Bridge, observe the following safety measures:

- Be alert and away of surroundings.
- Do not operate the Versatile(Nemesis)-JD Bridge system while under the influence of alcohol or an illegal substance.
- Remain in the operator's position in the machine at all times Versatile(Nemesis)-JD Bridge system is engaged.
- Determine and remain a safe working distance from other individuals. The operator is responsible for disabling the Versatile(Nemesis)-JD Bridge system when a safe working distance has been diminished.
- Ensure the Versatile(Nemesis)-JD Bridge is disabled prior to starting any maintenance work on the machine or parts of the Versatile(Nemesis)-JD Bridge system.
- Follow all safety instructions from the Versatile system as well as the JD system!
- The Versatile(Nemesis)-JD Bridge must only be used in the field, never on the street!

Electrical Safety

- Always verify that the power leads are connected to the correct polarity as marked. Reversing the power leads could cause severe damage to the equipment.
- Verify that all cables and connectors are not going over sharp edges and are not pinned, as this could cause power shortages and/or malfunctions.

Introduction

Congratulations on your purchase of the Versatile(Nemesis)-JD Bridge. This product is designed to bridge the communication between a Versatile(Nemesis) tractor (autosteer ready) and John Deere or Vision displays. This allows a JD display to create maps in the John Deere format and also provides straight AB-Line autosteer.

The operator uses the JD display to create AB-lines. The current position is determined by a John Deere receiver and all this information is used by the Versatile(Nemesis)-JD Bridge to create steering instructions for the tractor. All conditions for autosteer such as minimum speed, steering enabled, etc., must be met by the Versatile system before the autosteer engage option in the tractor can be activated.

NOTICE

This manual is not intended to replace the manuals for the tractor or the John Deere system. The operator must read and understand the manuals and instructions of these systems before using the Versatile(Nemesis)-JD Bridge.

What's In The Box

The VERS-JD-N kit contains the following items:

- a. VERS-JD-N Bridge
- b. VERS-JD-N Machine Adapter
(SKU: VERSJDNMABS2)
- c. VERS-JD-N Inside Adapter
(SKU: VERSJDNISABS2)
- d. VERS-JD-N Outside Adapter
(SKU: VERSJDNOSABS2)
- e. VERS-JD-N Roof Adapter
(SKU: VERSJDNRABS2)



NOTE: If you are missing any of these items or they appear to be damaged please contact +1 (825) 247-2477 or support@agragps.com

Step 1: Installing the Outside Adapter

Locate the existing hydraulic steering control valve, underneath the cab (right side).



(1) Find the 8-pin deutsch connector under the cab, labelled C136 Auto Steer. It is located under the back of the cab (right hand side).

Remove the plug cover and connect the Outside Adapter here.

(2) Find the 3-pin connector for the wheel angle sensor. It is located near the 8-pin connector, extending from the same harness.

Remove the plug cover and insert the 3 pin connector until it “clicks”.

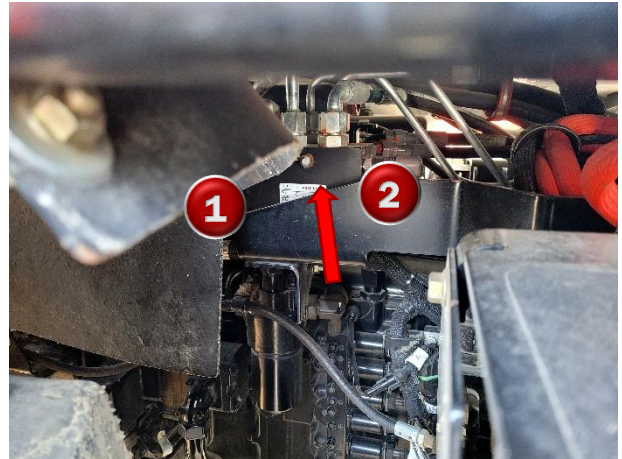


View facing towards back

Connect the Outside Adapter to receptacles for valve activation (1) and pressure transducer (2).

Once all connections are made, secure the cable with cable ties so it cannot be damaged.

NOTE: If the tractor had a Trimble or Outback steering system installed, the transducer was changed and must be changed back to the factory transducer sensor: 422-0000-086 Raven XDCR Pressure Transducer 0-3000 PSI



Step 2: Installing the Roof Adapter

First, mount the receiver on top of the roof.

You can create your own mount or purchase a mount directly from Agra-GPS

After mounting, connect the 12-pin connector of the Roof Adapter to the JD GPS.



The other end of the Roof Adapter must be connected to the 12-pin deutsch connector located outside the cab roof near the rear right corner.

Location of C903 pass-through cable connector is pictured.



Step 3: Accessing the Cab Connectors

In order to make the necessary connections some panels within the cab need to be temporarily removed.

First unhook the window piston, unbolt the right door grab bar, and then remove four plastic panels in order to access the cab connectors

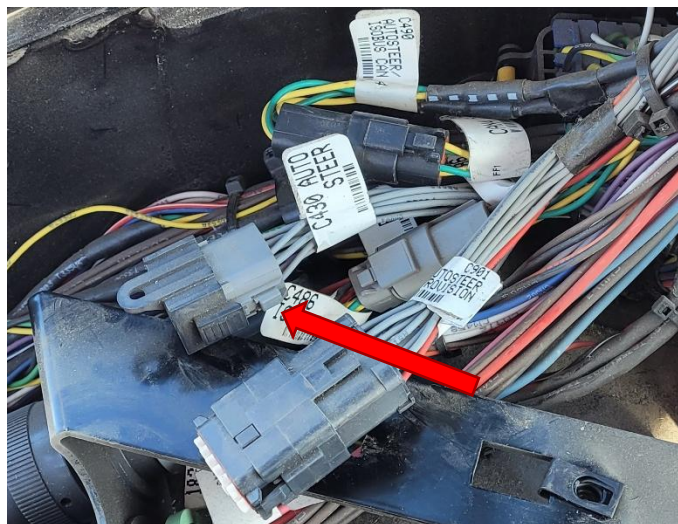


Step 4: Installing the Inside Adapter

Find the 8-pin deutsch connector inside the cab (labelled C430), and remove the plug cover.

Connect the 8-pin adapter here.

The other end of the Inside Adapter should be plugged into the Bridge.



Step 5: Mounting the Bridge

Before mounting the Bridge, connect the mini 12-pin plug of the Machine Adapter to the Bridge so that both the connections to the Bridge are made.

Then, mount the Bridge behind the operator seat, in the back compartment space (behind panel 4).

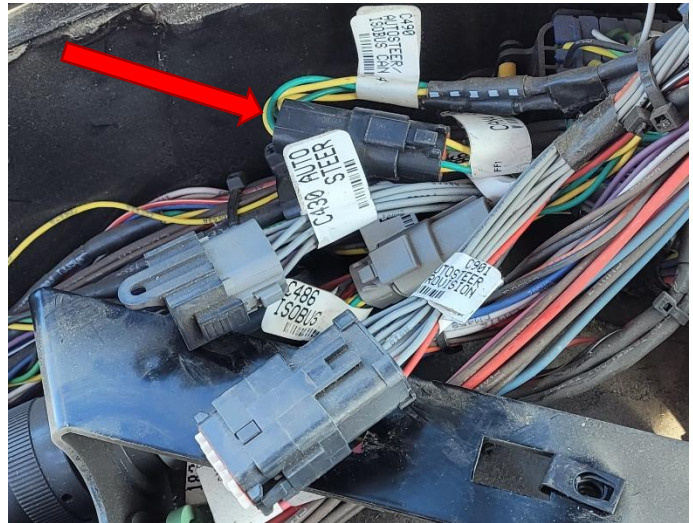
Note: Newer bridge styles will look different however they can be mounted in the same spot.



Step 6: Installing the Machine Adapter

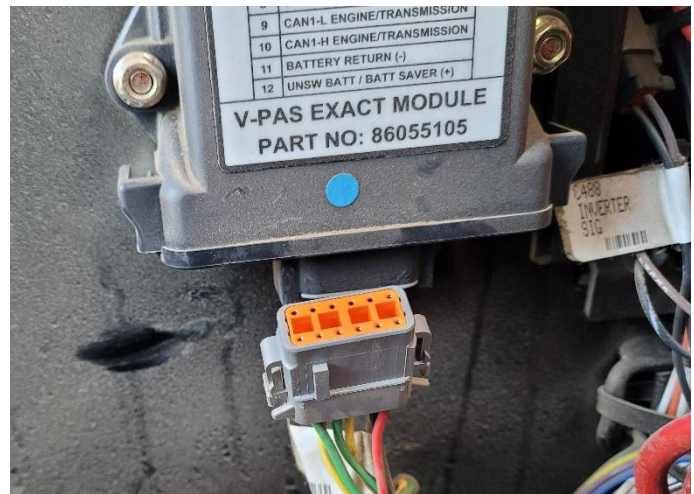
Return to where you previously installed the 8-pin adapter and open the ISOBUS CAN 4 connector (C490).

Then connect the new cable connectors.

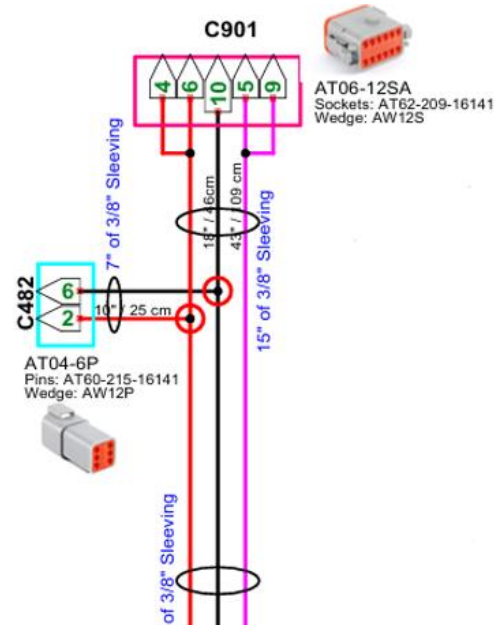


Next, locate the C434 connector, which can be found on the V-PAS module behind the operator seat (left side).

Disconnect the cable from the module and install the corresponding passthrough from the Machine Adapter.



The grey 12-pin Deutsch plug and the grey 4-pin Deutsch connector need to be connected to supply power.



The 4-pin will be connected to the overhead Auto Steer switch near the radio.

****NOTE**** Power is not switched by the key. If the system remains powered after the tractor is turned off for an extended time, it will drain the battery.



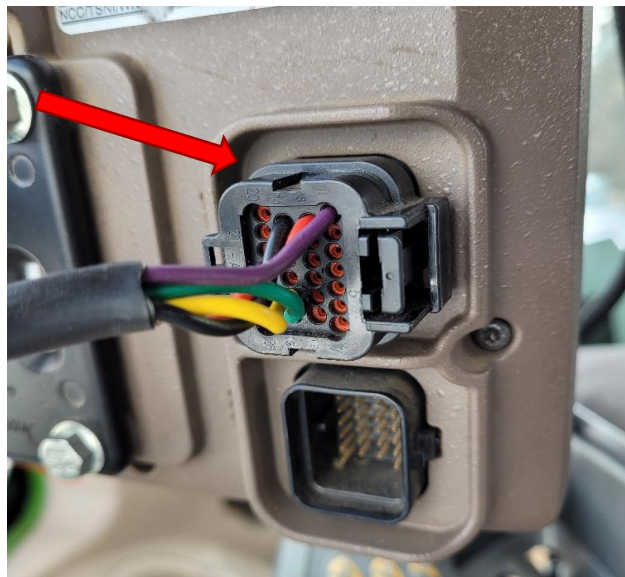
Find the 12-pin deutsch connector (labelled C901), and remove the plug cover.

Connect the "ISO Bus Cable" here.

Connect the other end of this cable to the Bridge.



Connect the "ISO Bus Cable" to the back of the John Deere monitor.



Step 7: Mounting the JD Display

The mounts for the JD display are NOT part of the Versatile(Nemesis)-JD Bridge, however they can either be ordered as an optional item from Agra-GPS or directly from RAM.

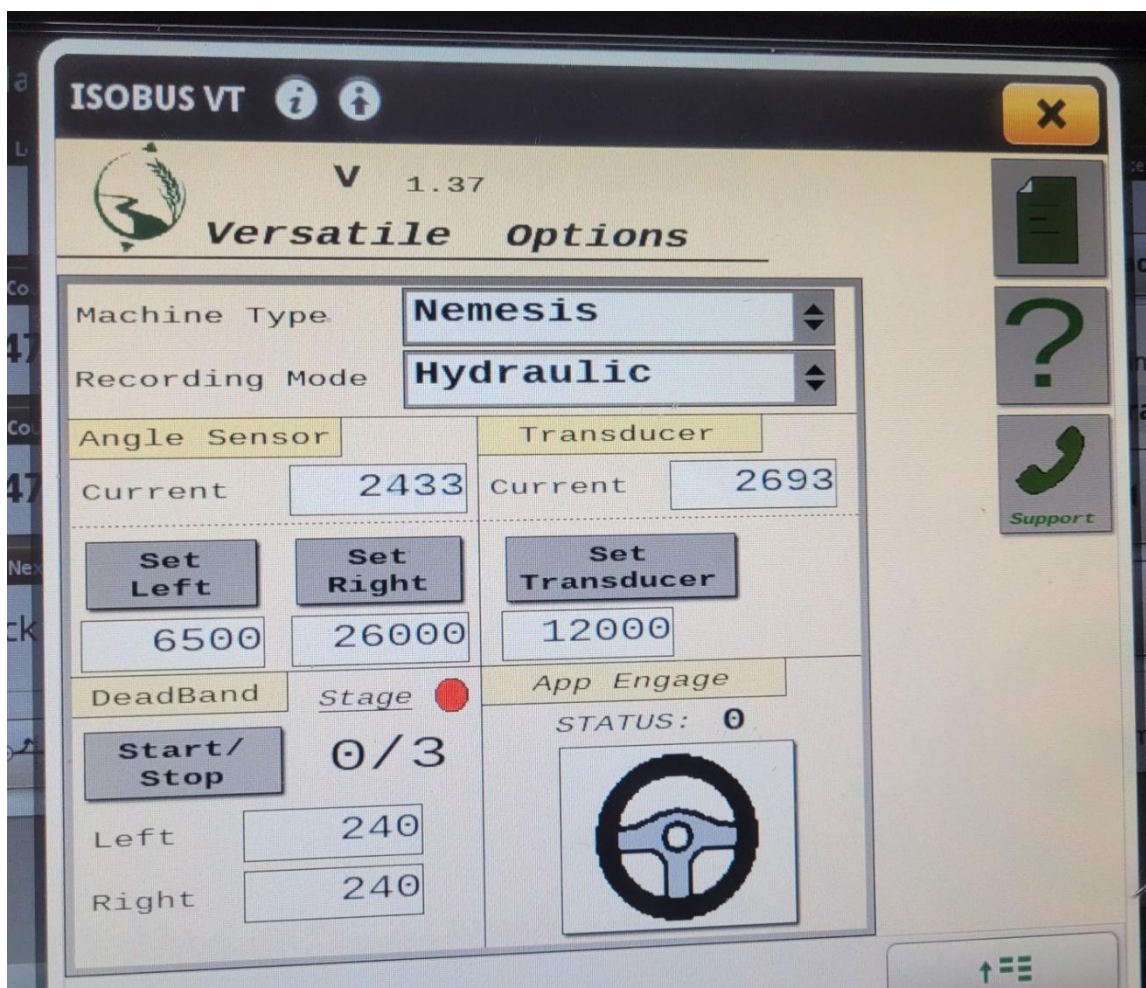
The JD-display may be mounted many different ways.

You may use the standard JD mounts or a RAM mount. RAM-270U + 2 * 1.5" balls (RAM-202U) + 4" double socket arm (RAM-201U). It fits JD displays 2600 and 2630.

Step 8: Once the receiver is installed, move on to the Bridge User Manual for instructions on how to access the ISO app

NOTE: If you do not have the Bridge User Manual it can be found at <https://www.agragps.com/bridge-user-manual-english/>

Step 9: Calibration of the Versatile(Nemesis)-JD Bridge | ISOApp



Section – Steering Valve: Allows the user to set the left and right max of the Versatile machine. To calibrate, steer as far left as possible and press, “Set Left”. Then, steer as far right as possible and press, “Set Right”. The values should be in the thousands and have a good range between them e.g. 10000-20000 or even more. Should you see values in the hundreds, there is a connection issue and the voltage from the wheel angle sensor does not reach the Bridge.

Section – Transducer: Allows the user to set the steering wheel movement detection. While the machine is running, ensure the wheel angle is straight and the machine is in park. Then, press, “Set Transducer”. Again values should be in the thousands. A quick test for the transducer sees the “current” value jumping when the steering wheel is moved aggressively.

Section – Deadband: Allows the user to calibrate the deadband of the valves. Ensure the perimeter around the machine is clear and press the Start/Stop button to begin. An indicator will blink yellow while calibration is in progress and will take approximately five minutes.

Step 10: Operation

The button indicated can be used to engage or disengage auto-steering, if all other conditions are met.

Forcing the steering wheel will also disengage auto-steering.

